$$NO_2$$
 $NO_2$ 
 $NO_2$ 

Figure 1

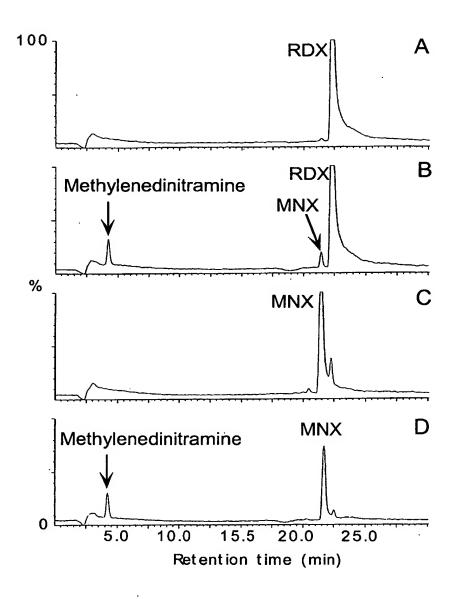


Figure 2

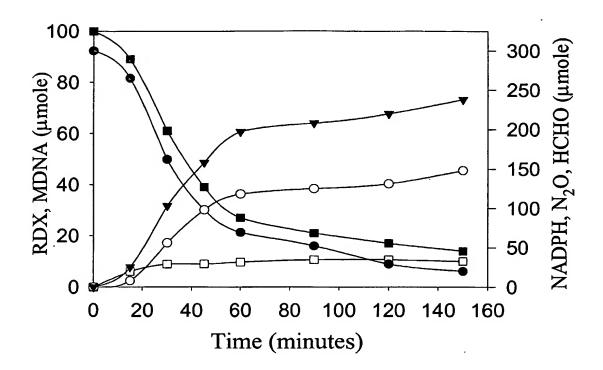


Figure 3

$$\begin{array}{c} NO_{2} \\ NO_{2$$

Figure 4

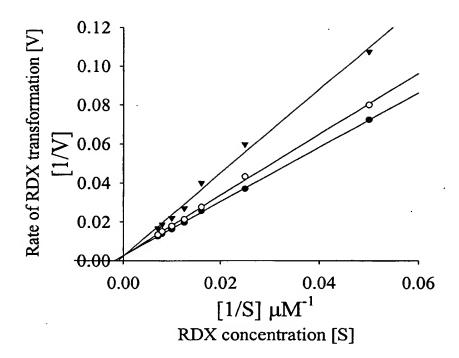


Figure 5

NMR analysis by Bruker DMX-600 and AV-400.

<sup>1</sup>H NMR ( $d_6$ -DMSO\*) 600 MHz:  $\delta$  4.73 (d, 2H, CH<sub>2</sub><sup>a</sup>),

8.1 (d, 1H, CH<sup>b</sup>), 8.7 (d, 1H, NH<sup>c</sup>), 12.45 (s, 1H, NH<sup>d</sup>)

<sup>13</sup>C NMR ( $d_6$ -DMSO) 400 MHz: δ 49.9 (d, C<sup>b</sup>), 166.9 (d, C<sup>a</sup>)

$$O_2N$$
 $\begin{array}{c|c}
H^d & H^c \\
N & a \\
C & CHO \\
H_2
\end{array}$ 

Molecular Structure of MW 119

## Elemental analysis:

	Nitrogen % (SD)	Carbon % (SD)	Hydrogen % (SD)
Measured:	34.25 (0.028)	20.27 (0.021)	4.19 (0.005)
Calculated:	35.29	20.17	4.23

Suggested molecular formula is C<sub>2</sub>H<sub>5</sub>N<sub>3</sub>O<sub>3</sub> (MW 119.08)

Figure 6

<sup>\*</sup> DMSO: dimethylsulfoxide

FIG. 7

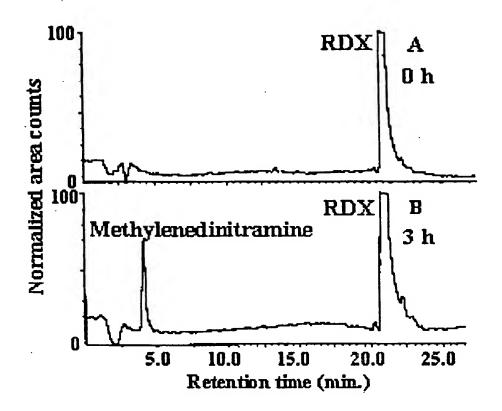


FIG. 8

6

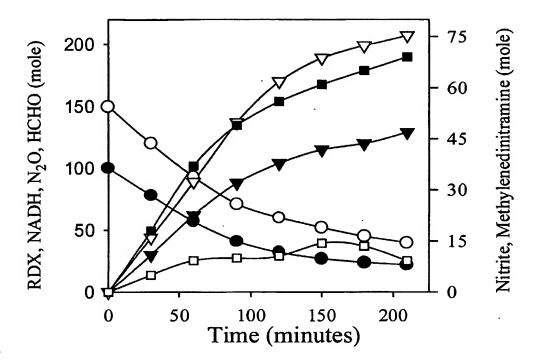


FIG. 9

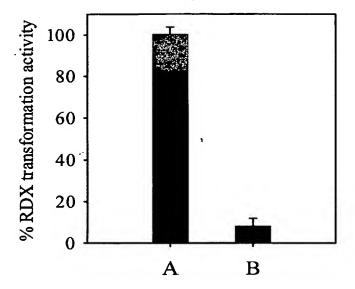


FIG. 10

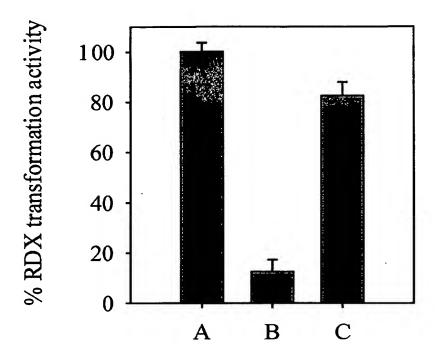


FIG. 11

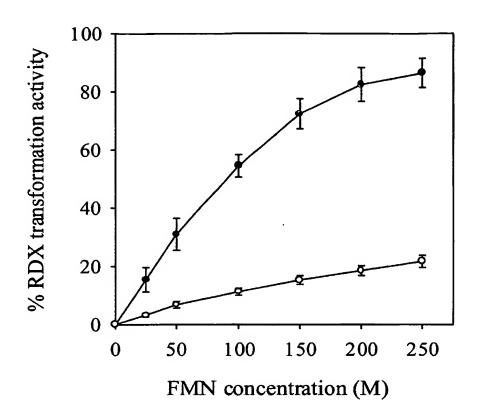


FIG. 12

Figure 13

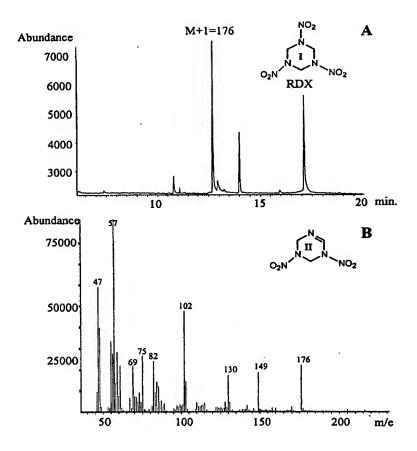


Figure 14

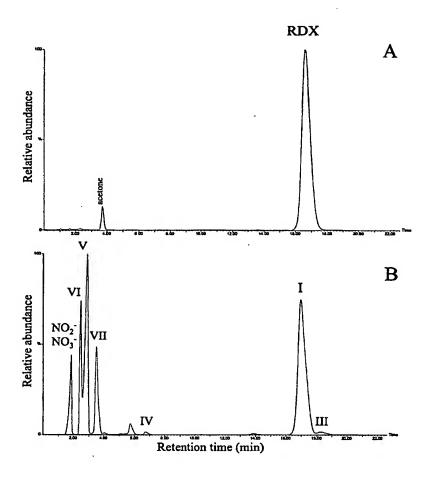


Figure 15

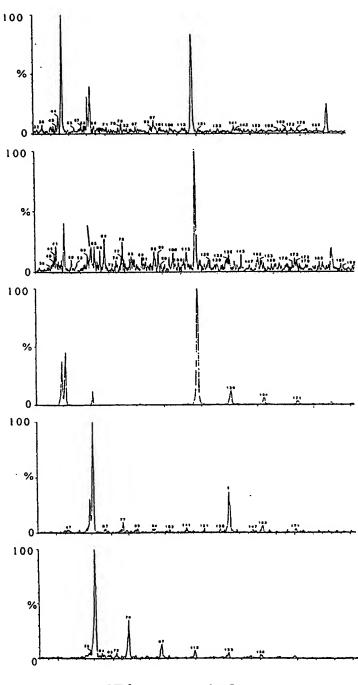


Figure 16

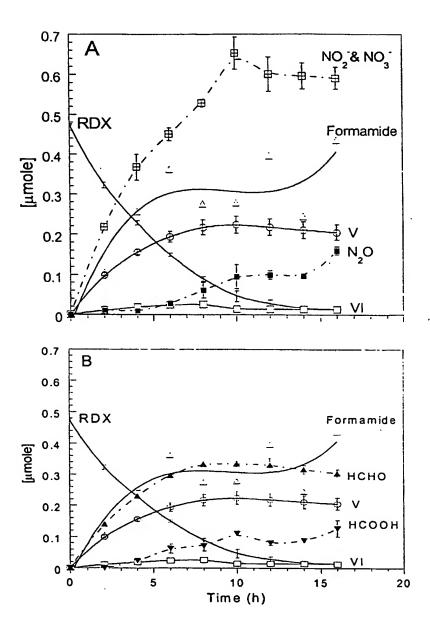


Figure 17

FIG. 18

Figure 19

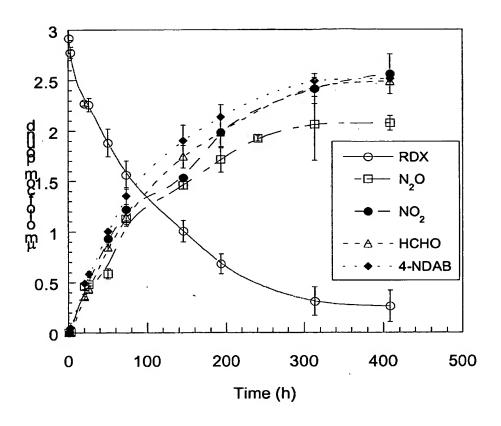


Figure 20

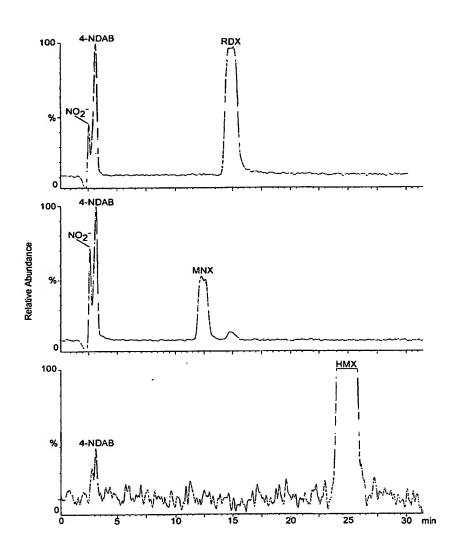


Figure 21

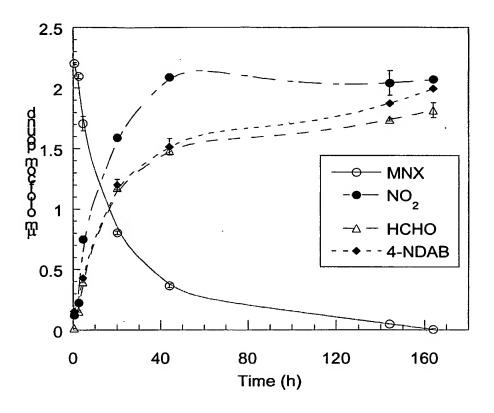


Figure 22

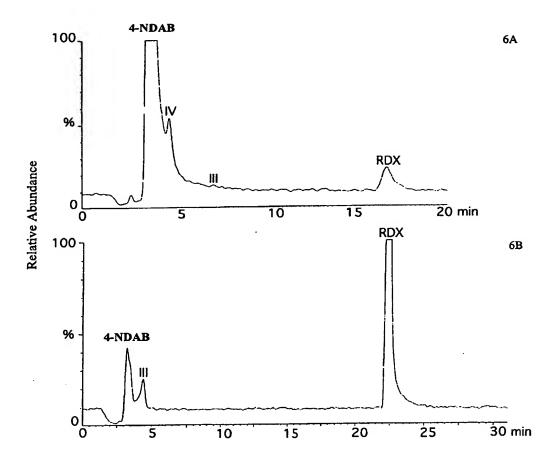


Figure 23

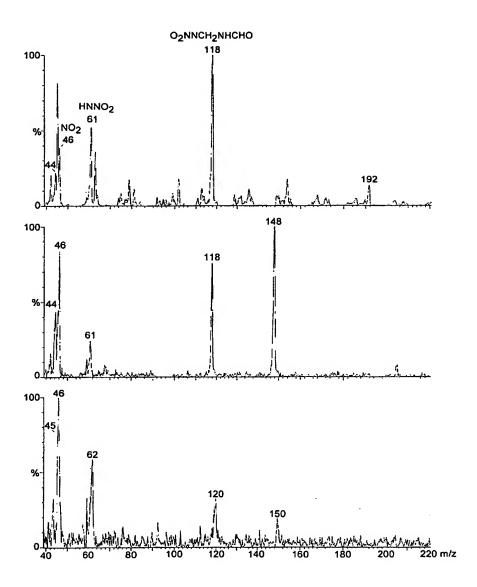


Figure 24

Figure 25

III 
$$\stackrel{\text{C2-NH bond}}{\stackrel{\text{cleavage}}{\stackrel{\text{cleavage}}{\stackrel{\text{CH}_2(\text{NHNO}_2)_2}{\stackrel{\text{CH}_2(\text{CHO}_2)_2}$$

Figure 26

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